Linear Systems – Review

Solve the systems below by the method of substitution or elimination. Solve these problems algebraically and then verify graphically or with matrices. For systems that do not have a single solution, label them *inconsistent* or *dependent.* I expect to see your work.

1) $x - y = 0$
$5x - 3y = 0$

2) $x + 2y = 1$
$5x - 4y = -23$

3) $2x - y = -2$
$4x + y = 5$

4) $6x - 3y - 4 = 0$
$x + 2y - 4 = 0$

5) $2x + y = 5$
$x - y = 1$

6) $x + 3y = 1$
$-x + 2y = 4$

7) $x + y = 0$
$3x + 2y = 1$

8) $2x - y = 3$
$4x + 3y = 21$

9) $x - y = 2$
$-2x + 2y = 5$

10) $3x - 2y = 5$
$-6x + 4y = -10$

11) $3x - 2y = 5$
$x + 2y = 7$

12) $x + 7y = 12$
$3x - 5y = 10$